

## **What is claimed is:**

- [Claim 1]**      1. A vehicle-mounted meter system comprising:
- an inputting and outputting circuit for data measured to show a condition of the vehicle,
  - a control circuit for controlling the system as a whole and for procession of the data, the control circuit separated from the data inputting and outputting circuit,
  - a meter main body having at least one measured value indication device a driving device for the indication device, and
  - a control unit detachably attached to the meter main body,
- wherein the data inputting and outputting circuit is arranged on the meter main body, and the control circuit is arranged on the control unit.
- [Claim 2]**      2. The meter system recited in claim 1 wherein the meter main body has a random bus structure corresponding to the data inputting and outputting circuit, and the bus structure has a buffer through which communication is allowed between the data inputting and outputting circuit and the control circuit.
- [Claim 3]**      3. The meter system recited in claim 1 wherein wire or wireless signal transmission is applied between the meter main body and the control unit.
- [Claim 4]**      4. The meter system recited in claim 1 wherein the control unit is a card-typed one.
- [Claim 5]**      5. A vehicle-mounted meter system comprising:
- an inputting and outputting circuit for data measured to show a condition of the vehicle,
  - a control circuit for controlling the system as a whole and for procession of the data, the control circuit separated from the data inputting and outputting circuit,
  - a meter main body having at least one measured value indication device and a driving device for the indication device, and
  - a control unit detachably attached to the meter main body,

wherein the data inputting and outputting circuit is arranged on the control unit, and the control circuit is arranged on the meter main body.

**[Claim 6]** 6. The meter system recited in claim 5 wherein the meter main body has a random bus structure corresponding to the data inputting and outputting circuit, and the bus structure has a buffer through which communication is allowed between the data inputting and outputting circuit and the control circuit.

**[Claim 7]** 7. The meter system recited in claim 5 wherein wire or wireless signal transmission is applied between the meter main body and the control unit.

**[Claim 8]** 8. The meter system recited in claim 5 wherein the control unit is a card-typed one.

**[Claim 9]** 9. A vehicle-mounted meter system comprising:

a meter main body having at least one measured value indication device and a driving device for the indication device, the measured value indication device showing a measured data of a condition of an automotive vehicle, and  
a control unit for controlling the system as a whole and for processing the measured data, the control unit detachably mounted on the meter main body,

wherein the control unit has a memory and a control circuit, the memory storing and rewriting a software program to control the system as a whole and to process the measured data, the control circuit operated by the software program.

**[Claim 10]** 10. The meter system recited in claim 9 wherein wire or wireless signal transmission is applied between the meter main body and the control unit.

**[Claim 11]** 11. The meter system recited in claim 9 wherein the control unit the is a card-typed one.

**[Claim 12]** 12. A vehicle-mounted meter system comprising:

a meter main body having an inputting and outputting circuit for data measured by various types of sensors to know a condition of the vehicle, at least one measured value indication device for indicating the measured data, and a driving device for the indication device, and

a control unit for controlling the system as a whole and for processing the measured data, the control unit detachably mounted on the meter main body,

wherein the control unit has a memory and a control circuit, the memory for storing and rewriting a software program to control the system as a whole and to process the measured data, the control circuit operated by the software program.

[Claim 13] 13. The meter system recited in claim 12 wherein wire or wireless signal transmission is applied between the meter main body and the control unit.

[Claim 14] 14. The meter system recited in claim 12 wherein the control unit is a card-typed one.

[Claim 15] 15. A vehicle-mounted meter system comprising:

a meter main body having at least one measured value indication device and a driving device for the indication device, the measured value indication device showing a measured data of a condition of the vehicle, and

a control unit detachably mounted on the meter main body,

wherein the control unit has a data inputting and outputting circuit and a memory, the data inputting and outputting circuit transmitting data measured by various types of sensors to know a condition of the vehicle, the memory used for storing and rewriting a software program to control the system as a whole and to process the measured data,

wherein the meter main body has a control circuit operated by the software program so that the control circuit controls the system as a whole and to process the measured data.

[Claim 16] 16. The meter system recited in claim 15 wherein wire or wireless signal transmission is applied between the meter main body and the control unit.

**[Claim 17]** 17. The meter system recited in claim 15 wherein the control unit is a card-typed one.